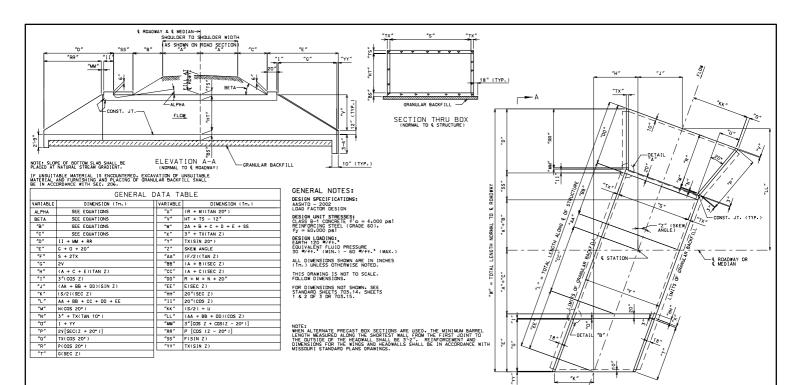


GENERAL NOTES: ALL DIMENSIONS SHOWN ARE IN INCH UNLESS OTHERWISE NOTED. J1 BARS MAY BE BENT IN FIELD DR SHOP. MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 1-1/2" UNLESS OTHERWISE SHOWN.

FOR DIMENSIONS AND SIZE AND SPACING OF REINFORCING STEEL. SEE STANDARD SHEET 703.15. 1) FOR DETAILS OF REINFORCEMENT IN WINGS. SEE STANDARD SHEET 703.37.

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION				
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MICCOURT HISCHWAY AND TRANSPORTATION



EQUATIONS FOR COMPUTING LENGTH OF BARRELS

LET ALPHA = ANGLE OF SLOPE OF BARREL WITH HORIZONTAL ALONG

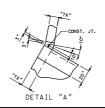
LET BETA = ANGLE OF SLOPE OF FILL NORMAL TO & ROADWAY.

"B" OR "C" = (FILL AT € ROADWAY)±(CROSS-SLOPE) X "A"± A TAN(ALPHA)
TAN(BETA) ± TAN(ALPHA)

"B" OR "C" - HORIZONTAL DISTANCE FROM EDGE OF SHOULDER TO HEADWALL NORMAL TO € OF ROADWAY.

DEFINITIONS

CROSS-SLOPE: SLOPE OF EACH PART OF THE ROADWAY INCLUDING ROADWAY CROWN. SHOULDER SLOPE. AND/OR SUPERELEVATION. SEE DESIGN ROADWAY CROSS SECTION FOR LANE AND SHOULDER WIDTHS AND SLOPES.





PLAN SHOWING LAYOUT DIMENSIONS (DOWNSTREAM AT LEFT SHOWN-FOR DOWNSTREAM AT RIGHT, ROTATE 180° ABDUT (STRUCTURE)

← STRUCTURE

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